

ABSTRACT**TRIANGULAR ASSIGNMENT OF PINS USED FOR DIAGONAL
INTERCONNECTIONS BETWEEN DIAGONAL CHIPS IN A MULTI-CHIP
MODULE**

5 A system for minimizing the length of the longest diagonal interconnection.
A multiple chip module may comprise a first chip connected to a second chip located
diagonally to the first chip. The first and second chip are interconnected by one or
more interconnections commonly referred to as diagonal interconnections. Since the
one or more diagonal interconnections between the first chip and the second chip are
10 interconnected between a set of pins on each chip that form a triangular pattern, the
longest diagonal interconnection is substantially the same length as the length of the
longest orthogonal interconnection. Furthermore, since the one or more diagonal
interconnections between the first chip and the second chip are interconnected
between a set of pins on each chip that form a triangular pattern, the longest diagonal
15 interconnection is substantially the same length as the length of the second longest
diagonal interconnection.